# BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of Work: Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05**

## BYATARAYANAPURA DIVISION

# PRE-MEASUREMENTS

**1st & Final Bill**

**Name of Work :- Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05**

## PRE MEASUREMENTS

| Item No | Discription of Item | No | Length | B1 | B2 | Avg Breadth | Depth | Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. 6/5/2020 to 18/05/2020 | | | | | | | | |
| | **For RCC drain** | | | | | | | | |
| | **OM Circle** | | | | | | | | |
| | **LHS Cross roads from 3rd cross** | | | | | | | | |
| | **Cross road-1** | | | | | | | | |
| | LHS | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 17.00 | 1.10 | 1.10 | 1.10 | 1.00 | 18.70 | |
| | RHS | | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 17.00 | 1.10 | 1.10 | 1.10 | 1.00 | 18.70 | |
| | **Cross road-2** | | | | | | | | |
| | RHS | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 19.50 | 1.10 | 1.10 | 1.10 | 1.00 | 21.45 | |
| | LHS | | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 19.50 | 1.10 | 1.10 | 1.10 | 1.00 | 21.45 | |
| | **Cross road-3** | | | | | | | | |
| | LHS | | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 1.00 | 33.00 | |
| | | 1 | 21.00 | 1.10 | 1.10 | 1.10 | 1.00 | 23.10 | |
| | RHS | | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.90 | 29.70 | |
| | | 1 | 8.00 | 1.10 | 1.10 | 1.10 | 0.90 | 7.92 | |
| | **For CC Road** | | | | | | | | |
| | **2nd cross** | | | | | | | | |
| | | 1 | 30.00 | 4.90 | 4.80 | 4.85 | 0.30 | 43.65 | |
| | | 1 | 30.00 | 4.80 | 4.80 | 4.80 | 0.30 | 43.20 | |
| | | 1 | 25.50 | 4.80 | 5.00 | 4.90 | 0.30 | 37.[illegible] | |
| | **LHS Cross roads from 3rd cross** | | | | | | | | |
| | **Cross Road-1 from 3rd cross** | | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.30 | 45.00 | |
| | | 1 | 30.00 | 4.90 | 4.30 | 4.60 | 0.30 | 41.40 | |
| | | 1 | 17.00 | 4.30 | 4.30 | 4.30 | 0.30 | 21.93 | |
| | **Cross Road-2 from dead end** | | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.30 | 45.00 | |
| | | 1 | 30.00 | 4.90 | 4.90 | 4.90 | 0.25 | 36.75 | |
| | | 1 | 19.50 | 4.90 | 4.80 | 4.85 | 0.30 | 28.37 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Deductions** | | | | | | | | |
| **Cross Road-1** | | | | | | | | |
| Ramp | -1 | 6.60 | 0.50 | 0.50 | 0.50 | 0.25 | -0.83 | |
| **Cross Road-2** | | | | | | | | |
| Electric Pole | -3 | 0.20 | 0.20 | 0.20 | 0.20 | 0.25 | -0.03 | |
| | -2 | 2.00 | 0.60 | 0.60 | 0.60 | 0.25 | -0.60 | |
| | | | | | | **Present Qty** | **812.35** | **Cum** |

16/5/2020

Assistant Engineer
Ward No.05

Asst. Executive Engineer,
Byatarayanapura Sub division

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. 20/05/2020 to 3/6/2020 | | | | | | | |
| | **For RCC drain** | | | | | | | |
| | **OM Circle** | | | | | | | |
| | **LHS Cross roads from 3rd cross** | | | | | | | |
| | **Cross road-1** | | | | | | | |
| | LHS | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 17.00 | 1.10 | 1.10 | 1.10 | 0.10 | 1.87 |
| | RHS | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 17.00 | 1.10 | 1.10 | 1.10 | 0.10 | 1.87 |
| | **Cross road-2** | | | | | | | |
| | RHS | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 19.50 | 1.10 | 1.10 | 1.10 | 0.10 | 2.15 |
| | LHS | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 19.50 | 1.10 | 1.10 | 1.10 | 0.10 | 2.15 |
| | **Cross road-3** | | | | | | | |
| | LHS | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 21.00 | 1.10 | 1.10 | 1.10 | 0.10 | 2.89 |
| | RHS | | | | | | | |
| | | 1 | 30.00 | 1.10 | 1.10 | 1.10 | 0.15 | 4.95 |
| | | 1 | 8.00 | 1.10 | 1.10 | 1.10 | 0.10 | 0.88 |
| | **For CC Road** | | | | | | | |
| | **2nd cross** | | | | | | | |
| | | 1 | 30.00 | 4.90 | 4.80 | 4.85 | 0.15 | 21.83 |
| | | 1 | 30.00 | 4.80 | 4.80 | 4.80 | 0.15 | 21.60 |
| | | 1 | 25.50 | 4.80 | 5.00 | 4.90 | 0.15 | 18.74 |
| | **LHS Cross roads from 3rd cross** | | | | | | | |
| | **Cross Road-1 from 3rd cross** | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.15 | 22.50 | |
| | 1 | 30.00 | 4.90 | 4.30 | 4.60 | 0.15 | 20.70 | |
| | 1 | 17.00 | 4.30 | 4.30 | 4.30 | 0.15 | 10.97 | |
| **Cross Road-2 from dead end** | | | | | | | | |
| | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.15 | 22.50 | |
| | 1 | 30.00 | 4.90 | 4.90 | 4.90 | 0.15 | 22.05 | |
| | 1 | 19.50 | 4.90 | 4.80 | 4.85 | 0.15 | 14.19 | |
| **Deductions** | | | | | | | | |
| **Cross Road-1** | | | | | | | | |
| Ramp | -1 | 6.60 | 0.50 | 0.50 | 0.50 | 0.15 | -0.50 | |
| **Cross Road-2** | | | | | | | | |
| Electric Pole | -3 | 0.20 | 0.20 | 0.20 | 0.20 | 0.15 | -0.02 | |
| | -2 | 2.00 | 0.60 | 0.60 | 0.60 | 0.15 | -0.36 | |
| | | | | | | **Present Qty** | **240.44** | **Cum** |

2/6/2020

Assistant Engineer
Ward No.05

3/6/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 5/6/2020 to 18/6/2020 | | | | | | | |
| | **OM Circle** | | | | | | | |
| | **LHS Cross roads from 3rd cross** | | | | | | | |
| | **Cross road-1** | | | | | | | |
| | **RHS** | | | | | | | |
| | **Total Drain length=77.00Mtr** | | | | | | | |
| | Main bar 10mm dia bar @ 125mm c/c | | | | | | | |
| | 0.62kg/mtr | | | | | | | |
| | | 610 | 2.30 | | 0.62 | | | 869.86 |
| | Distribution bar 10mm dia @ 125mm c/c | | | | | | | |
| | 0.62kg/mtr | 20 | 77.00 | | 0.62 | | | 954.80 |
| | **LHS** | | | | | | | |
| | **Total Drain length=77.00Mtr** | | | | | | | |
| | Main bar 10mm dia bar @ 125mm c/c | | | | | | | |
| | 0.62kg/mtr | | | | | | | |
| | | 610 | 2.30 | | 0.62 | | | 869.86 |
| | Distribution bar 10mm dia @ 125mm c/c | | | | | | | |
| | 0.62kg/mtr | 20 | 77.00 | | 0.62 | | | 954.80 |
| | **Cross road-2** | | | | | | | |
| | **RHS** | | | | | | | |
| | **Total Drain length=79.50Mtr** | | | | | | | |
| | Main bar 10mm dia bar @ 125mm c/c | | | | | | | |

18/6/2020

3/06/2020 to 18/06/2020

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.62kg/mtr | | | | | | | | |
| | 630 | 2.30 | | 0.62 | | | 898.38 | |
| Distribution bar 10mm dia @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | 20 | 79.50 | | 0.62 | | | 985.80 | |
| **LHS** | | | | | | | | |
| **Total Drain length=79.50Mtr** | | | | | | | | |
| Main bar 10mm dia bar @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | | | | | | | | |
| | 625 | 2.30 | | 0.62 | | | 891.25 | |
| Distribution bar 10mm dia @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | 20 | 79.50 | | 0.62 | | | 985.80 | |
| **Cross road-3** | | | | | | | | |
| **LHS** | | | | | | | | |
| **Total Drain length=81.00Mtr** | | | | | | | | |
| Main bar 10mm dia bar @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | | | | | | | | |
| | 630 | 2.30 | | 0.62 | | | 898.38 | |
| Distribution bar 10mm dia @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | 20 | 81.00 | | 0.62 | | | 1004.40 | |
| **RHS** | | | | | | | | |
| **Total Drain length=38.00Mtr** | | | | | | | | |
| Main bar 10mm dia bar @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | | | | | | | | |
| | 280 | 2.30 | | 0.62 | | | 399.28 | |
| Distribution bar 10mm dia @ 125mm c/c | | | | | | | | |
| 0.62kg/mtr | 20 | 38.00 | | 0.62 | | | 471.20 | |
| | | | | | | **Present Qty** | **10183.81** | **Kg** |
| | | | | | | **Present Qty** | **10.18** | **Tonne** |

18/6/2020

Assistant Engineer
Ward No.05

18/6/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications 4/07/2020 to 10/07/2020 | | | | | | | |
| | **For CC Road** | | | | | | | |
| | **2nd cross** | | | | | | | |
| | | 1 | 30.00 | 4.90 | 4.80 | 4.85 | | 145.50 |
| | | 1 | 30.00 | 4.80 | 4.80 | 4.80 | | 144.00 |
| | | 1 | 25.50 | 4.80 | 5.00 | 4.90 | | 124.95 |
| | **LHS Cross roads from 3rd cross** | | | | | | | |
| | **Cross Road-1 from 3rd cross** | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | | 150.00 |
| | | 1 | 30.00 | 4.90 | 4.30 | 4.60 | | 138.00 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 1 | 17.00 | 4.30 | 4.30 | 4.30 | | 73.10 | |
| | **Cross Road-2 from dead end** | | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | | 150.00 | |
| | | 1 | 30.00 | 4.90 | 4.90 | 4.90 | | 147.00 | |
| | | 1 | 19.50 | 4.90 | 4.80 | 4.85 | | 94.58 | |
| | **Deductions** | | | | | | | | |
| | **Cross Road-1** | | | | | | | | |
| | Ramp | -1 | 6.60 | 0.50 | 0.50 | 0.50 | | -2.30 | |
| | **Cross Road-2** | | | | | | | | |
| | Electric Pole | -3 | 0.20 | 0.20 | 0.20 | 0.20 | | -0.12 | |
| | | -2 | 2.00 | 0.60 | 0.60 | 0.60 | | -2.40 | |
| | | | | | | | **Present Qty** | **1161.31** | **Sqm** |
| | | | | | | | **Limited to** | **1128.80** | **Sqm** |

10/07/2020
Assistant Engineer
Ward No.05

10/7/2020
Asst. Executive Engineer,
Byatarayanapura Sub division

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7 | Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. 13/07/2020 to 22/07/2020 | | | | | | | | |
| | **For CC Road** | | | | | | | | |
| | **2nd cross** | | | | | | | | |
| | | 1 | 30.00 | 4.90 | 4.80 | 4.85 | 0.15 | 21.83 | |
| | | 1 | 30.00 | 4.80 | 4.80 | 4.80 | 0.15 | 21.60 | |
| | | 1 | 25.50 | 4.80 | 5.00 | 4.90 | 0.15 | 18.74 | |
| | **LHS Cross roads from 3rd cross** | | | | | | | | |
| | **Cross Road-1 from 3rd cross** | | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.15 | 22.50 | |
| | | 1 | 30.00 | 4.90 | 4.30 | 4.60 | 0.15 | 20.70 | |
| | | 1 | 17.00 | 4.30 | 4.30 | 4.30 | 0.15 | 10.97 | |
| | **Cross Road-2 from dead end** | | | | | | | | |
| | | 1 | 30.00 | 5.10 | 4.90 | 5.00 | 0.15 | 22.50 | |
| | | 1 | 30.00 | 4.90 | 4.90 | 4.90 | 0.15 | 22.05 | |
| | | 1 | 19.50 | 4.90 | 4.80 | 4.85 | 0.10 | 9.46 | |
| | **Deductions** | | | | | | | | |
| | **Cross Road-1** | | | | | | | | |
| | Ramp | -1 | 6.60 | 0.50 | 0.50 | 0.50 | 0.15 | -0.50 | |
| | **Cross Road-2** | | | | | | | | |
| | Electric Pole | -3 | 0.20 | 0.20 | 0.20 | 0.20 | 0.15 | -0.02 | |
| | | -2 | 2.00 | 0.60 | 0.60 | 0.60 | 0.15 | -0.36 | |
| | | | | | | | **Present Qty** | **169.32** | **Cum** |

24/07/2020
Assistant Engineer
Ward No.05

Asst. Executive Engineer,
Byatarayanapura Sub division